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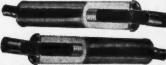
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10 LETTERS..... WHAT'S YOUR PROBLEM?.....

CUSTOM QUERIES..... , by George &

COMING ATTRACTION..... Barbara Mart

Car Craft's October cover shows noted San Diego, California resi Robbie Martinez demonstrating the technique of coloring autom brightwork. For the inside story on how you can apply this same be treatment to your own car see page 14. - Anscochrome by Dick

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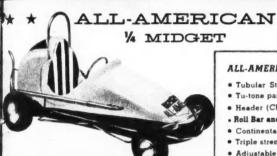
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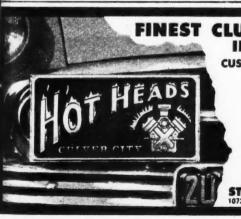
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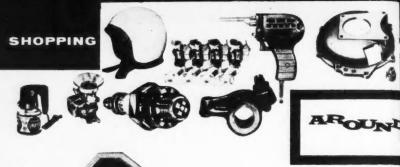
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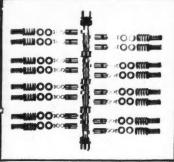
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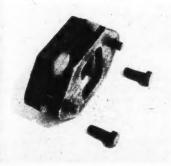
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LETTERS

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LAST WORD ON Q.M.?

Dear Sir:

No doubt about it, CAR CRAFT is the greatest! Your 10-page section on "Those Marvelous Mercs' in July was fabulous I'm now fiberglassing mine with "Tap Kit".

About the Quarter Midget argument -1 don't particularly care for them, but - I sure ly wouldn't stop buying CAR CRAFT if you decide to continue the series,

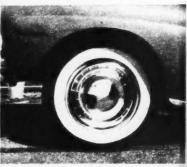
> - Lynn Hanus. Pasadena, Calif.

Anyone else go for this "middle of the road" policy? - Ed.

WHEEL-COVER CAPER

Dear Sir:

in the May '57 issue of CAR CRAFT in the Custom Queries department the problem of adapting 15" wheel covers to 16" wheels was discussed. I adapted '55 Chevrolet wheel



covers to my '47 Ford by mounting the 15" Chev covers to the 16" Ford "beauty" trim rings. It looks good and is quite economicalbetter than buying all new wheels and tires.

> - Gerald S. Lis. Cincinnati, Ohio

Thanks, Gerald — your tip is sure to be appreciated. - Ed.

FATHER'S FORTY

Dear Sir:

I have been a fan of CAR CRAFT for many years now. Enclosed is a picture of a '40 Ford my father and I have improved upon. The body has been leveled-off about 3" lower than stock, while 15" Merc wheels help it



appear lower yet. The engine is a ¾ race flathead, with dual carburetors, exhausts, and ignition. The bumpers are from a '48 Ford, the upholstery is red and black naugahyde, and the body is painted Snow Shoe White.

I sincerely hope the car rates a place in

- Tom Franken, Cincinnati, Obio

Always a place for fine 'forties here, Tom. — Ed.

PILGRIM'S PONTIAC

Dear Sir:

your magazine.

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. Enclosed is a snapshot of my '51 Pontiac convertible. Customs are becoming more



popular up here and I feel your magazine has a lot to do with it. My car has been nosed and decked, with the parking lights filled in and a '53 Chevrolet grille installed — which provides new parking lights itself.

Dick Kardas,
 Ware, Massachusetts

That's a nice original modification, Dick.—Ed.

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LETTERS

KENTUCKY KUSTOM

Dear Sir:

Enclosed you'll find pictures of my moderate "Kentucky Kustom" which I would like very much to see in your magazine. I use the word "custom" very loosely as the on has only had a very limited amount of work done to it. Other than the usual hood and



deck job, the grille has been reworked, seams around the parking lights filled, chrome removed from the front fenders, the short chrome strip on the door replaced with the one from the 4-door 210, and the center-section of a '56 Pontiac station wagon rear bumper installed.

I enjoy your magazine very much and it would be an honor to see my car within its covers.

- Otis Armstrong, Hopkinsville, Kentucky

It's always been a question of quality rather than quantity with us, Otis, so your car is more than welcome.—Ed.

POWER BRAKES

Dear Sir:

So far I have not been able to locate a parts store that carries the JEB master cylinder booster unit described in your July article, "Power to Stop". I would appreciate it if you could give me the address of a dealer in this area.

Larry Butler,
 Portland, Oregon

For the address of the JEB dealer nearest you, write: JEB Industries, 6235 Santa Monica Blvd., Los Angeles, California.—Ed,

featuring: 1958

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"BOW TO INSTALL A RECLINING SEAT

1/1/1/1/ "QUAD BRADLIGHT CUSTOMIZING"

"INTERIOR CUSTOMIZING*

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1/1/1/1/1/ "CUSTOMIZING PICKUPS"

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"WEIRD CUSTOMS

An inexpensive technique for trans porting your car's chrome work Into the fourth dimension...



14

CAR CRAFT OC



NE OF THE BIGGEST boons to customizers is about to hit the country—it concerns COLOR CHROME! The color glamorizing fad has already reached enthusiastic acceptance in areas such as San Francisco, Oakland, Los Angeles, San Diego, and it's only a question of time 'til its sparkle infiltrates other areas possessing custom car interest and activity.

The marvelous thing about this new COLOR CHROME is the cost and ease of application. The process is one that centers around a liquid - in short, synthetic enamel toner. Being that a liquid is involved, the application must be done with a paint gun. Application can be made over any mirrorlike finish such as chrome, polished aluminum or stainless steel. The secret lies in the fact that the automotive paint toner that is used is a very transparent liquid. When a reflecting surface is painted with the specified toner the surface takes on color, but since the toner is transparent, the mirrored reflection remains constant - hence, "COLORED CHROME!"

The paint product used is that of the Nason Paint Company (automotive paints) which has numerous national retail outlets, so procurement of the toner material should pose no problem. The toner comes in some six colors. It is referred to as "Glyko", and is coded with a "G" and a numeral for identification. Colors are as follows: Violet G-109. Green G-122. Blue G-111. Gold G-123, Lime Gold or Green Gold G-19, and Maroon G-14. The toner containers measure a pint which proves more than sufficient for any color chroming job. Price is very nominal - approximately \$1.50 for a pint can. Upon purchase you should specify to the salesman that a small amount of "G-M Dryer" be added to the toner which will cut the drying time of the material considerably. You will also need a small separate quantity of clear synthetic enamel for application mixture.

Application to date is heavily concentrated in the custom car's hubcap department — but it is rapidly becoming a popular treatment for grilles, side trim, chromed or polished engine compartment pieces, exhaust extension tips and general automotive accessories such as spot lights, radio antennas, etc. It should be clearly understood though that for components that are subjected to considerable heat, such as those found in the engine compartment close to the block and possibly along the exhaust system, that the toner

material would more than likely deteriorate (peel or bubble) because of the intense heat. Items such as valve covers, carburetor air cleaners, spark plug wiring looms covers, etc., have held up well under considerable testing. Extension exhaust tips are also favorable for the toner treatment.

Application of the toner is universal whether it be a hubcap that is being painted or an engine's polished valve cover. First requisition is that the item to be painted must be free of all wax or any substance that might prevent the toner from securely adhering to the surface. This is accomplished by thoroughly cleaning the surface with a liquid wax and grease remover - wiping it on, then wiping it dry with a clean cloth. Only other requirement before applying paint would be that of masking off any areas that you do not wish painted such as the case with many hubcap designs, etc.

Correct mixture of the toner should be on the thin side - after diluting slightly with thinner and adding a small amount of the clear enamel. Commence spraying the surface with a very light "fog" coat, until the surface is covered. This seems to give following coats a tacky surface to adhere to and assists in bonding the material to the chromed or polished surface. Secondary and following coats should be sprayed on evenly and sparingly, preventing the possibility of paint runs. If any irregularities or paint runs do appear on the surface, wipe the freshly painted toner off with a rag saturated in lacquer thinner, let the surface dry, clean with the wax and grease remover, then proceed again from the start with the painting application. The density of the tone is strictly controlled by the number of coats applied to the surface. Otherwise, the more coats of paint you put on the surface the darker the tone quality will be - and visa-versa.

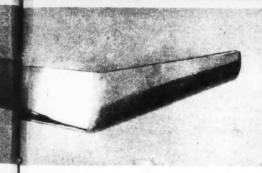
We wish to thank Robbie Martinez and partner, Bill Wyman, of House of Customs, San Diego, California, and the Barris Brothers Custom Shop of Lynwood, California, for their generous cooperation in helping to bring this story to the readers of CAR CRAFT magazine. On the following pages you will find two step-by-step features dealing with how to go about "color chroming" universal hubcaps which offers a photographic basis for getting you started on the "color

chrome" treatment.





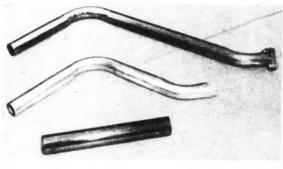
CAR CRAFT OF



LEFT • Cbromed grille components are naturals for the new color cbrome treatment. Pictured bere is the grille bar found on this month's cover.

BELOW • The popular exterior exhaust systems featuring simulated headers, etc., lend a nice effect trimmed out with this new color chrome treatment.

LEFT • Custom enthusiasts have placed most of their color chrome concentration in the hubcap department of their cars. Blades trimmed in harmonizing colors or painted back center sections seem to get the popular vote for appearance. This is just the start; many novel innovations will be forthcoming.







Nason Paint Company (Automotive paints) offers six colors to choose from: Maroon, Blue, Lime or Gold Green, Gold, Violet, Green. Numeral coding for these various toners can be found in story's text. Pictured above is material used in article.

ough



1. If bubcap centers are to be paint-back, then blades must be removed. If blades don't come off, then use masking tape.



2. With blades removed, surface is thoroughly cleaned with wax grease remover.



3. Small 1/4" masking tape works best when masking border, then larger tape/paper.



4. Mix color toner slightly on the thin side with small amount of clear added.



5. "Fog" on the first coat. The secondary coats should also be applied sparingly.



6. After paint has had a chance to dry, usually overnight, blades are re-installed.



7. Here's finished bubcap with center painted back. See front cover for appearance.



1. On this hubcap innovation we are dealing with the popular "Moon" type cover. The design consists of numerous circles.

5. fold

7. A DO



2. By using small ¼-inch masking tape and a tape ruler, each circle can be checked for correct width completely around cap.



3. Every taped circle is measured against the previous one for perfection in width.



4. Once circles are completed, larger masking tape and paper are used to cover cap.



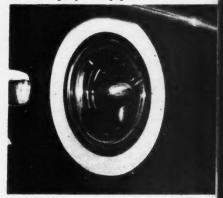
5. The first coat is "fogged" on with the following coats being applied sparingly.



6. After surface has completely dried the masking tape and paper are removed.



7. A cream polish works best for polishing. DO NOT USE ABRASIVE POLISHES.



8. Here's finish cover: a striking contrast of Lime/Gold and green spinner and blades.

Goulart's Cart

BY GENE WINFIELD

LeRoy Goulart of Stockton, California, shows just how "full" a semi-custom can be





Unusually flared front fenders, and a molded and rolled grille opening are features of LeRoy Goulart's '51 Ford coupe restyling done by Winfield's Custom Shop, Modesto, Calif. '56 Chrysler center bars are inserted; bood peaked and louvered. Split '55 Pontiac front bumper has been fitted.



Dodge Lancer side trim is used effectively to further lower car's appearance. Reworked A arms, reversed spindles, C-d frame lend car its low silhouette.



Ends from '49 Pontiac grille bars were used to form unusual sculpturing around '56 Olds "98" taillight lenses. Also noteworthy is use of fiberglass to form shroud over license plate on rear deck. Green-gold paint is used. Under bood is a '54 Oldsmobile mill. Interior is rolled and pleated.



'53 Chevrolet's gift to custom car builders

Photos by George Barri

JNIVERSAL GRILLE shells don' come along every year. One that wa ntroduced some three years ago, but hat taken up til now to be officially recognized by custom car builders as an adapt able piece for almost all makes an models—is the '53 Chevrolet grille frame. Being that frame's contours are practically flat and it possesses verilittle taper, minimum modification are only deemed necessary to make it fir up to most car's front lode paneling and grille openings. Once installed, the Chev's frame cavit, lends itself to just about any grill combination that a customize might want for appearance. The following photo story is all that is needed to get you started on building one of these special grille openings for your custom.



1. First step is that of brazing the lip bar of the grille shell solid to the frame.



2. Next, the lower rear corners of frame can be cut off if desired (see lead photos).



3. If frame is cut, the edges must be worked out to correspond with opposite side.



4. Paint around the grille cavity is now ground off using an electric grinder.

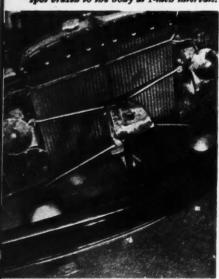
TORCH TIPS



5. The grille frame is now positioned and spot brazed to the body at 1-inch intervals.



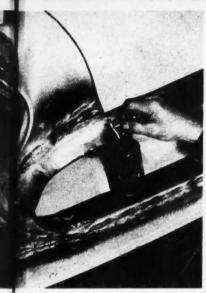
6. The latch plate for the bood will need 9. C extra support bracing (see step no. 7), edge



7. Here is the latch assembly with its added support bracing; ½" rod is used.



8. The forward edge of the latch plat 11. S. must be trimmed off slightly due to book book



9. Close hood and mark off where hood 7), edges strike frame; cut with a hacksaw.



10. The lip bar of the grille's frame is now welded to leading edge of the bood.



at 11. Small gaps found at both ends of the outbood are now filled with sheet metal.



12. The hood and lip bar of the frame are now aligned to the other frame members.

TORCH TIPS



13. The grille shell is now solidly welded to front body paneling and gravel shield.



14. Employing the electric grinder once in more, grind the working area semi-smooth.



15. A rotary brush and band drill are used to thoroughly clean all the brazed areas.



16. Tin surface, then apply stick lead. Contour lead over surface with lead paddle. gre



17. The surface is now worked to perfection by hand filing with various vixen files.

tb.



18. The bare metal is now sanded by band and old paint feather-edge sanded,



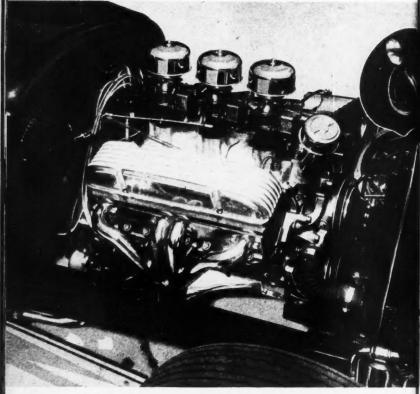
19. Surface is now washed with wax and 19. Surface is now washed with wax and le. grease removed, then metal prep solution.



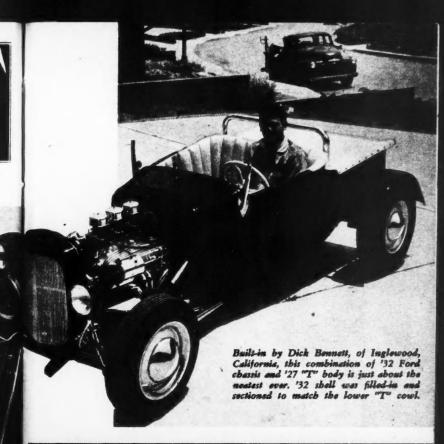
20. Last steps consists of prime painting, then blocksanding surface to perfection.

THE TIDIEST

Chevrolet-charged truck is equally at home on street and strip



Bored an eighth and stroked a quarter, '56 Chevrolet V8 powerplant displaces 306.6 cubic inches. Jahns Hi-Dome pistons raise compression to 93/4 to 1, held in by Sealed Power rings. An Engle cam, Offenhauser triple manifold and Corvette ignition are used, along with Headman "Hedders." Flywbeel is stock, has 12" Buick clutch.





The 15" wide-base Mercury wheels are halted in their flight by healthy hydraulics from a '40 Ford. The '32 Ford steering and front suspension insure good handling. The radius rods were split and attached to the side rails with Ford truck tie-rod ends.

OCTOBER, 1957

306.6 s by

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RAFT

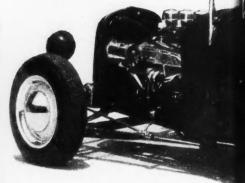
CONTINUED

THE TIDIEST





California law requires rear fenders on all cars over 1500 pounds laden weight; Bennett complied with this neat set-up.



Pick-up bed was made up from sheet steel stock to approximate dimensions of short-ened original. Tarp conceals ultra-sturdy roll bar bracing. Accessory license plate light and traditional '39 Ford blinkers bandle rear illumination in legal manner.



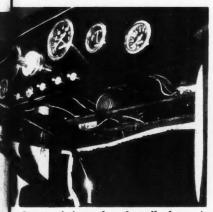
Driveline consists of '34 Ford gearbox using heat-treated gears driving through shortened torque-tube and driveshaft into '40 Ford rear end carrying a 4.11:1 ratio ring and pinion set. Rakish angle of Columbus tubular shocks holds sway in check on curves.



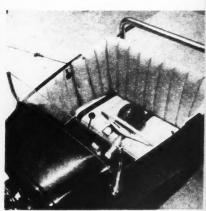
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Secret of featureless firewall shown in lead photo is revealed here. Shelf under dash holds all the electrical components usually exposed in conventional location.



White leather interior by Dan's Top Shop contrasts handsomely with jet-black exterior. Only lower half of two-piece "T" windshield used, held by stock brackets.



Neil Emory



Clay Jensen

RESTYLES THE '42-'48 FORD/MERC



7 ALLEY CUSTOM SHOP, known to many custom car enthusiasts for their tedious and detailed workmanship, is the crew behind this month's cleverly restyled '42-'48 Ford and Mercury. This is the second time around for this particular year, make, and model due to persistant requests from devoted "restyling" readers. It's interesting to note that Valley's treatment for this classic model is one that does not merely rely on adaptable late model components for its styling, but rather items from other cars as far back as its own vintage. The secret being; employing only those pieces that would accentuate its original styling but give it a modern facelifting. Many times late model, or current components are installed in a custom-to-be just for the sake of being first with the component installation. Components

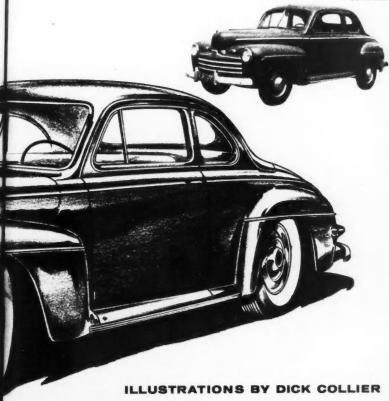
selected for this model were very well thought out; all tending to bring the bulbous lines up to date and to make a play for added width.

BODY MODIFICATIONS

Actual body modifications were kept very moderate; stock side trim was replaced with narrower trim from a '49 Merc. Fenders also received narrower rub strips from a '48 Ford. '39 Ford door handles were used in conjunction with the narrower side trim due to the fact that they are also narrow in design. Forward fender pads were discarded and all holes filled.

HOOD, GRILLE AND HEADLIGHT

'55 Chevrolet pick-up grille with vertical CONTINUED



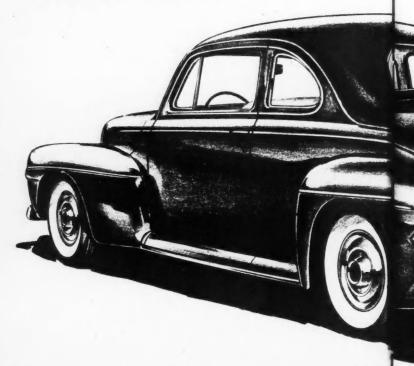
bars removed was substituted for the stock grille assembly. Headlights were frenched utilizing '52-'54 Ford headlight rims. All chrome trim found on grille's lip bar and hood has been given the "deep six." Parking light units also have been removed and areas filled. Bumper takes on clean appearance and augments car's width with bumper bolt head and guards discarded.

REAR FENDERS AND TAILLIGHT MODIFICATIONS

Major alteration at rear consisted of removing the stock taillights entirely filling in openings, then adapting '50 Merc blinkers with frames molded directly to fenders i low position. Deck lid received the de-chr ing treatment and license plate and fra were bolted along the lower edge of the Rear bumper, like that of the front, has gua and bolt heads removed.

The car's low silhouette is due to "Zi the rear of the frame some full five inches, front, de-arched springs and a dropped account for radical lowered look. Lower necessitated radiusing front and rear with openings up to a point just below fend side trim for the purpose of allowing proclearance in wells and turning radius in front fender cavities.

'42-'48 FORD/MERC RESTYLE



PARTS		

PARIS AND PRICE	1 1121	
	Labor	Parts
"Z" frame five inches	\$200.00	
Install dropped axle and		
de-arch spring	60.00	
Remove trim from head and fill	5.00	
Remove parking lights	18.00	
Mald grille's lip ber	15.00	
Install 55 Chevy pick-up grille		
(parts included)	125.00	
French headlights	80.00	
Install '49 Merc side trim	15.00	20.00
Install '48 Ford side frim an fend		20.00
Remove and fill in taillight areas		
Remove trim from trunk lid	30.00	
Install license plate on trunk ild	2.00	2.00
French in '50 Merc tailtights	50.00	15.00
Radius front and reat		
wheel openings	80.00	
Point (locquer)	200.00	ra Simon is
Install '39 Ford door handles	4 00	6.00
	911.00	63.00
2000年1月1日 1月1日 1月1日 1月1日 1月1日 1月1日 1日 1	63.00	
TOTAL	COUL DE	



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BUILDING AN

AST MONTH we told you how Rick Rickman began the work on the Olds engine he plans to install in a '54 Corvette. We told you what was done to the engine's crankshaft and connecting rods to enable Potvin full-floating connecting rod bearings to be used with them and how its cylinder block was bored and honed. This month we'll tell you how he installed the crankshaft and other innards in the cylinder block.

The crankshaft was cleaned with solvent to remove any grit that might have been left on it from the grinding. Solvent was run through its oil passages, and when it was flushed with water from a hose, water was directed through the passages with as much pressure as possible to flush them and to see if they would flow full streams. It is important that the passages be open and clean because if they aren't open the flow of oil will be blocked and if they aren't clean the dirt and grit that is in them will be forced into the bearings when the engine is started. This can be the end of the bearings if there is enough of the dirt and grit. The shaft was dried and its ground surfaces lightly oiled to keep them from rusting.

Rick likes Federal Mogul bearings so he bought a set of them for the engine's mains. With the block resting on its upper side, he placed one of the bearing inserts in each of its bearing bores. He made sure the lip on each insert seated in the recess in the bore and then checked the alignment of the oil holes in the bearings with those in the block. It isn't impossible for an insert of the wrong type to be placed in a box at the factory and if the wrong insert should be used and it blocked one of the engine's oil passages, something would run dry and damage would result. He oiled the bearings and then laid the shaft in them.

One of the inserts was placed in each of the bearing caps, the bearings were lubricated, and the caps were placed on their respective journals. The caps are numbered one through four, with number one at the front of the block. The rear cap isn't numbered because it is one of a kind. The caps will bolt to the block in only one position because they fit in an offset broached channel, and their numbers are on the right side of the crankshaft when they are on the block. As additional check, the insert tang recesses in cap and block must be on the same side the shaft.

Rick checked the clearance between crankshaft and the bearings to see if it within specifications. He did this with pieces of shim stock approximately 1/4 in wide and 1/2 inch long. One of the pieces .002 inch thick and the other was .003 in He torqued all but one of the caps to specified tension of 100 foot-pounds for front four and 140 foot-pounds for the n and found that the shaft would turn freely hand. He then laid the thicker of the p pieces of shim stock on the journal that h no cap and then bolted the cap to the blo The shaft was now locked because it could be turned by hand. Then he removed the and switched the pieces of shim stock bolted the cap in place again. This time shaft was free but he didn't turn it any farth than necessary to determine this because didn't want to scratch the bearing with shim stock. He then repeated this procedu on all the bearings.

The theory of checking bearing clearance this manner is that the thinner of the t pieces of shim stock represents the minima desired clearance in the bearings and thicker piece the maximum clearance. If shaft isn't free with the thinner piece place the bearing being checked doesn't ha enough clearance, and if the shaft does lock up with the thicker piece in place t bearing has too much clearance.

The end clearance of the shaft in its bear ings was measured by prying the shaft forwat as far as it would go and then inserting therp blade of a thickness gauge between the thrustreet flange on the rear bearing and the thruste en surface on the crankshaft. The specified clear ance is .004 to .008 of an inch. If it harbrice been more or less than this the rear bearing slipp raphi would have had to have been changed.

After checking the clearances Rick remove ngs, the shaft from the block and installed the rear main bearing seal in the block and carnsion The seal packing must be rolled into the grooves in the block and cap and then because trimmed to length with a razor blade or

The



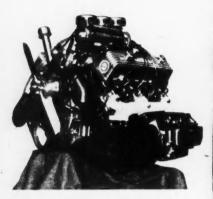
there knife. This is a job that must be done truetrectly or oil will leak past the seal when rule engine is running and be lost.

The crankshaft installation was finished by habiticating its journals and the bearings with rin slippery, non-running mixture of powdered raphite and motor oil, laying it in the bearings, and installing the bearing caps and ghtening their capscrews to the specified arisions. The mixture of graphite and motor thill was used to lubricate the crank's bearings ecause it probably would be a long time fore the engine would run. During this

time oil would drip out of the bearings, leaving them without lubrication for the first few revolutions of the crankshaft after the engine was started. This would not be good because the bearings need lubrication badly when the engine is first started so they will not be damaged before they receive oil from the engine's oiling system.

New piston pin bushings were pressed into the rods and honed to a diameter that permitted the pins to be pressed into them easily with a thumb. This is fairly loose but it is the

CONTINUED



BUILDING AN OVERHEAD

recommended fit for an engine of this type. The pistons were assembled on the rods and then the assemblies were aligned on a rod aligning fixture.

Pistons of the type Rick used have domes on their heads to raise the compression ratio of the engine in which they are installed. They are sold by Speed-O-Motive, in El Monte, Calif., and are available for ratios from 9 to 1 to 12 to 1. Rick's pistons provide a ratio of 9.5 to 1 with stock cylinder heads. The idea of these pistons is to enable the compression ratio of an engine to be raised without resorting to head milling and then fighting the consequent intake manifold misalignment. Their material is an aluminum alloy and they have solid skirts, use three rings, come with pins fitted, and have grooves in the end of their pin bores for pin locks.

Grant piston rings were fitted individually to the cylinders in which they were to be used. This must be done with rings of any make so they will have the necessary "end gap" when they are in the cylinders. If a ring doesn't have enough end gap its ends will butt together when it got hot. When this happens the ring will buckle and probably break.

To check the gap, the rings were slipped into the cylinders, one at a time, and then Pederal-Mogul bearings were selected brank their reputation for durability. Insmock must be kept free of grit and dirt duringfal assembly to protect their fine fine is p

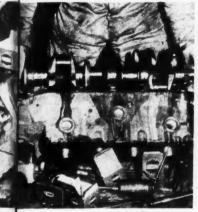


pushed three or four inches into the cylinder is p with the head of a piston. This aligned then 03 is with the walls so their gap could be measure, the with the blade of a thickness gauge. The deust sired gap was .008 to .010 inch. Those thail a didn't have enough gap were filed to make those gap wider. This was done by holding a small gap smooth-cutting file in a vise so its cutting reledges were in a vertical position and the didn't moving one end of the ring back and forth the along the file. All the rings were fitted in this del manner and then kept in order so they coulde m be installed on the correct pistons.

The rings were also checked in the pistor may grooves in which they were to be used tuless see if they were of the correct depth for the ears pistons. This was done by inserting the outer the circumference of each of the rings in the pan grooves in which the ring was to be used and seating it on the bottom of the groove that If a ring is usable in the groove in which it them inserted in this manner the surface of it in the inner circumference will be below the surface of the land on either side of the groove. He grother the ring surface is above the lands, either the riring is too deep for the groove or the groovehalt in its too shallow for the ring.

The relative widths of the rings and grooves ight were checked by inserting the rings in theime p grooves in the same manner as for the depth ese check. A ring was placed in its groove and and s thickness gauge was then inserted in the thig groove alongside it. The desired clearance and a

led h_{rank} is laid in bearings prior to shim-Insergek clearance check described in text, duringfaces should not be oiled until after finals preliminary check has been completed.



nder is point was .002 inch, with a maximum of then 3 inch. The rings must have some clearance sures they won't bind in the grooves but they e deust not have so much clearance that they the ideal allow oil to be pumped around them and e them the combustion chambers. While the small ngs were in the grooves for this check they tringere rolled around the pistons to see that they the idn't bind at any point. Sometimes the edges forth the lands become nicked or otherwise damthised by rough handling between the time they ould make the pistons. When this happens the iston anged spot will bind the ring in the groove duales it is flattened with a file or some other theeans.

the rings were installed on the pistons by the panding them just enough to slide them asseder the heads of the pistons and then down over their grooves. Care was taken to install it is their right side up, as indicated by markings it is their sides. The gap in the oil ring was face laced on the opposite side of the piston from . Itse groove in its expander and the gaps in all these rings were staggered around they piston so over the rings were staggered around they piston so over the rone of them were in line.

With the block resting on the top of its years the cylinder bank, Rick was ready to install retire pistons in the left bank. The cylinders in the see engines are numbered one, three, five d and seven in the left bank, with number one the the front of the block, and two, four, six, and eight in the right bank, with number two

With shim of same thickness as correct clearance in place, main caps are torqued to the factory specifications and the crank is checked for ability to rotate freely.



at the front. With the crankshaft turned so the number one crank-pin was in its lowest position in relation to the block, and with the walls of cylinder number one wiped clean and then lubricated with clean oil, the block was ready for its number one piston and rod assembly.

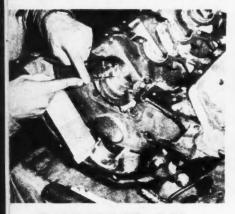
"spread" of the Potvin full-floating The rod inserts was adjusted before the pistons were installed in the block so the inserts would be ready when they were needed. An insert's spread is the measurement across its open side and it must be correct so the inserts will not bind on the crankpins or in the rods. It is adjusted by fitting the inserts individually to their respective crankpins and connecting rods. This is done by increasing or decreasing the spread until the inserts fit on the crankpins and in the bore in the rods without binding. The spread is increased by laying the insert on a clean block of wood, open face down, and then lightly tapping it on the back with a rubber mallet or some other nonmetallic hammer. The spread is decreased by holding the insert on the block of wood so it is supported on one side of its opening and then tapping the opposite side of the opening.

The piston rings on the piston for cylinder number one were lubricated with the graphite and oil mixture and then compressed into their grooves with a ring compressor. The cap was removed from its connecting rod and

CONTINUED

After clearance check, rear main oil seal is installed and trimmed to size prior to actual installation of crankshaft. Bearings should now be given preliminary oil.

After checking in bore for specified en Per gap rings are filed as required in manne tri shown here. Only one end of the ring nea "st be shortened, with file held in bench vin ed



BUILDING AN OVERHEAD

the rod and the lower end of the piston were inserted in the cylinder. Rick tapped the piston into the cylinder, carefully but firmly to prevent breaking any of the rings, while another fellow guided the lower end of the rod over the crankpin. The pin and the surface of the rod's bore and both sides of one of the bearing inserts were lubricated. The insert was placed on the crankpin and rotated around to where it was in line with the rod and then it was slipped off the pin and seated in the rod. The piston was tapped into the cylinder until the bearing seated on the crankpin. The other bearing insert was lubricated and placed on the pin and then the rod cap was slipped over the rod bolts, with its number on the same side of the crankpin as the number on the rod, and the nuts were run up snugly against the cap. The rest of the rods and pistons were installed in the bank and the block was turned so it rested on the top of its left bank. The rods and pistons were then installed in the right bank and then all the rod nuts were tightened to 45 foot-pounds.

Rick could have installed late model cylinder heads on the engine and taken advantage of their larger intake and exhaust ports and passages and larger valves but he didn't think these things were necessary for the type



of driving he would be doing. All he did a her the heads that came on the engine was polis in their intake and exhaust ports and passage fac and give them a good valve job. He didn fin mill them because he figured the 9.5 to approximately compression ratio provided by the pistom the would be high enough.

After the ports and passages in the head the had been ground to match the openings in the att intake and exhaust manifold gaskets, the old the valve guides were driven out of the head pra and new ones installed. The new guides were clubricated with white lead and driven into their bores until their upper ends were 27/32 the of an inch above the valve spring seat surface of on the heads.

The valve seats were ground with a hard-the seat grinder to a diameter just slightly smaller val than the heads of the valves. The intake seat spr were finished to a width of approximately val 1/16th inch and the exhausts to a width vit of approximately 3/32nd inch. The stockns angles of thirty degrees for the intakes and teleforty-five degrees for the exhausts were retained. After the seats had been ground, then valve ports were enlarged to match the larger buildiameter of the seats. This was done carefully see so the new seats wouldn't be damaged by the grinding wheel used in the ports.

The valves that came in the heads wender cleaned thoroughly with a motor-driven wire rec brush and inspected for wear and defects. Those with worn stems and burned or cracked is ed on Federal-Mogul rod bearing inserts being manus mial-fitted to crank in check for sufficient ig new "spread," the distance across the open ch viu edge of each individual bearing shell. Insert with excessive spread being corrected through gentle application of nonmetallic mallet. No more than a light tap is usually enough to adjust proper spread.





did wheads were discarded and replaced with others polish in good condition. The valves were then re-assage faced on a wet-facing machine and those that didn'finished to a thin edge above their face or 5 to I speared to be bent as they were rotated by pistons the grinder chuck were discarded and replaced with others. After the valves were refaced, head their stems were ground in a tip grinding in the attachment on the refacing machine to make the old them smooth. This is important as it is head practically impossible to adjust valve lash cores were textly when the ends of the stems are pitted. In into the valves and cylinder heads were cleaned 27/32 thoroughly with solvent to remove all traces urface of grinding grit and other foreign matter.

The valve stems and faces and the guides in hard the heads were lubricated with oil and the smalleralves were slipped into the guides. A valve e sean spring and retainer washer was placed on each mately valve stem and the spring was compressed width with a spring compressor and the split locks stock inserted in their grooves. The spring was then es and released and the compressor removed.

the re Rick didn't want to use a stock camshaft of the in the engine, but in line with his idea of larger building an engine that would run well at all refulls speeds and be dependable, he had to be extended to the type of reground came to used. He took his problem to Ed Iskens wenderian, of Iskenderian Racing Cams, and Edit wire recommended his popular E4 Full Rev-Master efects strind. This grind is in the full-race class and racked is said to combine good idle characteristics

with greatly improved acceleration and topend performance. Rick's cam is a stock regrind but the same grind is also available in Iskenderian's more durable Hard-Faced series for competition engines.

Iskenderian guarantees the cam Rick got for one year, if his chilled-iron valve lifters and the valve springs he recommends are used with it, so Rick also bought a set of the lifters. The lifters came complete with removable pushrod seats and a set of adjusting washers. The seats can be adjusted for height in the lifters to compensate for different pushrod lengths, for milled heads, etc.

The valve springs Iskenderian recommends for this cam are stiffer than those that were on the engine but they are also larger in diameter, which means that the spring seats on the heads must be enlarged before they can be installed. Rick didn't want to take the trouble to have the heads machined so he installed a new set of stock springs. These springs should be stiff enough for the type of driving he will do but if they aren't he will have to change them.

The next step was to measure the length of the valve springs with a narrow rule that could be held alongside a spring and be seated on the head. The length of each spring was compared with the specified length of 1-13/16 inches. The length of valve springs when they are in place on their valves is im-

CONTINUED ON PAGE 60

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Headlights, made completely by hand from sheet metal, are just one of the many original innovations fround on Eddy Dameral's coupe. Unusual shape simulates "beaked" appearance. Shanklin's Custom Shop of Hayward, Calif., is the craftsman behind Eddy's one-of-a-kind custom. Front bumper has guards and bols heads removed.

BIZARR





Fenders are extended some 14 ind neatly bousing '55 Chrysler blinks Round rod was used to form edge opening; note unusual shade desi

hanklin's Custom Shop of Northern California creates new custom "look"



clinks. 5 Pontiac bumpers trim out the molded and extended rear gravel shield. Exterior color edges a beautiful Lime-Green. The three grille hars found nestling in special grille dess evity emanate from '56 Chrysler. Body has been lowered some five full inches.



Oldsmobile taillight lenses have done it again! '56 Bullet-type blinkers spark unlimited styling in any manner-shape-or form

The



LEFT • '52-'54 Fords except the "98" Olds lend very well. Blinker is merely cradled into tip of fender actually serving to cover a section of the original taillight's opening. Cost for such a job is moderate.



FI • Utilizing two "98" lenses, end-tol, lend this '53-54 Chevrolet plenty custom appearance. Note scallop paint.

GHT • Here, "88" lens comes into play sped off with clever shaded effect. The all chrome teeth found on side are stock.



The "98" lens will fit up to most General Motors products similar to that of the Ford pictured above. Lens again is cradled in the tip of the fender. Car is '49-'52 Pontiac phich would parallel body style that of the Chevrolet and Oldsmobile of the same years,



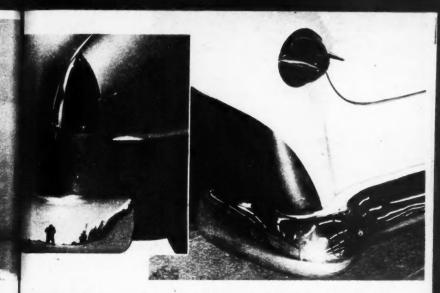
Originality is the theme behind this '55 Ford's radical "98" Oldsmobile taillight installation. Stylish cavity was constructed from sheet metal, using small diamam round rod to finish off edge of opening. Contours are not too far removed from stoda s



With stock lens removed, "88" lens was neatly butted against bulkhead and special shade constructed for this '55 Fairlane.

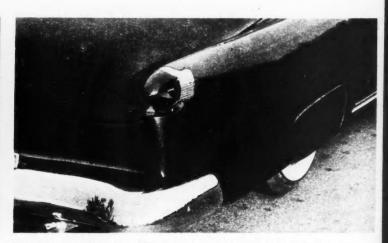


They don't come much nicer than this is stallation where stock windsplits we built rearward to house lens -'49'50 For



sillige "88-98" Olds lens' popularity stems amelem its versatility, Here we see it installed stoda vertical angle in a '49-'51 Plymouth,

The '52-'54 Ford proves a natural for the "88" treatment. Work here consists of a frenched rim, "88" Olds lens, chrome teeth.



The stock assembly of an "88" lens fairs-in nicely with the extended fender of this '49-'52 Chevrolet. Note small relief in fender just below light. Olds lens is one of the most universal "parts-counter" components.

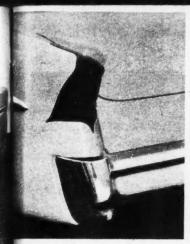


Victorious

It all started with a simple nose and deck jobbut today Don Chaves finds himself in the limelight of customizing show busines



Cradled 'tween frame rails of Don Chaves' '53 Merc is warmed-over Olds powerplant. Motivation is transmitted via LaSalle gearbox.



Lincoln Capri lenses are found neatly ud in rear fenders augmented by the a painting fad — scallops. Exhaust has a routed through tips of planed humper.



Lower stock grille pan molded to upper unit forms oblong grille cavity. A much modified '54 Merc front bumper serves as floating grille bar. Note scallop paint.

MERC

Bailon Custom Shop of San Leandro, California, did all work on Don's Sharp Merc. Car is consistent show winner in semi-custom class, Exterior color combo is '57 Lincoln Pink with deeper shades used for scalloping. Hood is scooped, Park lights are Chev.

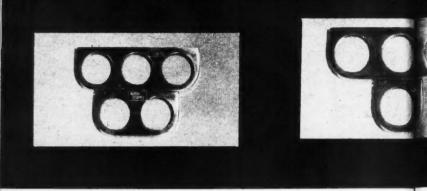


CRAPBER, 1957

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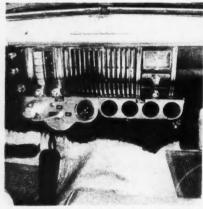
ACCESSORY OF THE MONTH



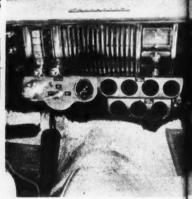
A N ACCESSORY THATS ALWAYS welcome is one that is not only functional, but also beautiful. To the rod and custom enthusiasts that make up the readership of this magazine, an item must have both these features before they'll even consider putting it in their car — so that's why we're happy to

present the latest in custom dash panels. Mather ufactured by that old standby in the customer equipment field, Moon Automotive, these unidd embody a new feature — they're "modular's i

Modular is a term frequently used in the furniture field to describe a piece that is order of a set, designed to be "added on to" wind

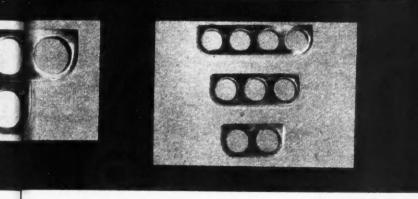


All modular panels are made for 2-1/16" diameter instruments such as S-W brand.



Four-hole panel shown at left is \$7.9 wo while three-hole unit above costs \$6.50000

Modular Instrument Panels

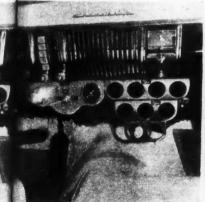


Photos by Eric Rickman

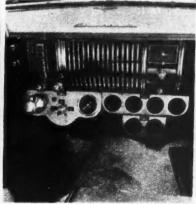
s. Mather pieces that will harmonize with each customer. Enabling the custom car enthusiast/hot se unioder to adapt the dash panel of his car to dular's increasing need for additional instrumenin ultion as more engine equipment is added, the is opodular panels work like building blocks and "wind a neat, unified appearance to the car's

interior that's worthwhile attaining.

If one or more of the combinations shown on these pages catch your fancy, drop a line to Moon Automotive, 10820 So. Norwalk Blvd., Santa Fe Springs, Calif. – they'll be glad to comply with your request and send you their latest catalog of auto accessories.



7,5 wo-hole model is \$5.50; may be used in 5,500 mobination with the other modular units.



Combination pump, three-way shut-off valve and pressure gauge unit costs \$34.00.

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I INSTRUCTIONS: Include the designing worked, discussing bales on vised and if mounting holes on your starch. Allen

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in Following Cherrolet, 40-37 Chrysler, 61-32 Chrysler, 61-32 Chrysler, 61-32 Cherrolet, 81-44 Front 61-45 Cherrolet, 81-45 Cher No. 874 -For 3" Drop. Me. B78 -- For 2" Drop.

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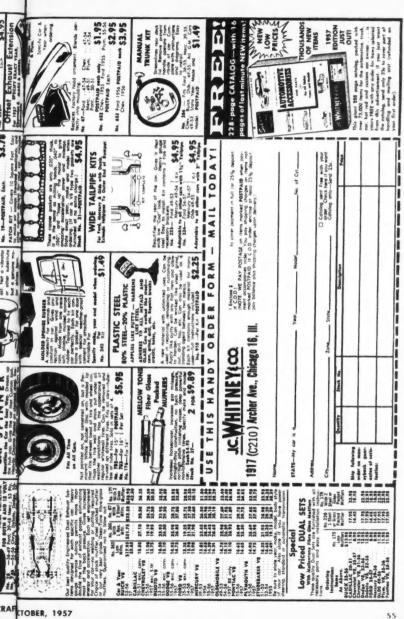
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No. 19-POSTPAIR, Each.

WHAT'S YOUR PROBLEM?



By Bob Pendergast

HEAVY HANDED

Dear Bob:

I have a '50 Ford convertible with a '51 Olds engine. The mill weighs approximately 135 pounds more than the flathead it replaced. I would like to know what I can use for replacement springs and shocks in the front end to help avoid nose-heavy handling.

- Garry Brown, Culver City, California

Nose heavy handling doesn't have to go along with a nose-heavy car, which you now have. Station wagon springs and stabilizer bar of the same year Ford will help; couple these with a set of good shocks such as Gabriel Silver "E" or Gabriel Adjustomatics set on "Firm" and you'll be part of the way there. Higher tire pressures in the front than in the back will reduce the "under-steer" tendency brought on by too much weight up front but the best single improvement in this direction is a brand new set of front tires, if your present ones are old enough to retire. The stiff sidewalls of new casings really help, and don't start to really taper off in this respect until the tire gets quite old. Avoid so-called "premium" tires - they're too soft and too spongy for your purpose.

OHV MERC STROKER

Dear Bob:

Can a '55 Mercury crankshaft stroked .200" (3.5") or a '56 Merc crank also stroked .200" (3.64") be used in a '54 Ford or Merc?

- Bob Abbey, Detroit, Michigan Yes, but the trouble makes it cheaper to a second-hand '56 312" engine. To use eith the '55 or '56 Ford and/or Merc cranks in '54 of either make you must line-bore it block to take the larger diameter main bearings used in the later model engine—is alternative of grinding the crank's main jea rate of a service engine's main bearings isn't as attractive as you might suppose, as the essentitive as you might suppose, as the essentitive as you might suppose, as the essentitive as you will be decreased to the point seriously weakening the strength of the crait

FOREVER FOUR

Dear Bob:

I am in the process of building-up a Mod
"A" for four-barrel competition. It is bor
.040" oversize now — is that enough or shoul
it be more? If so, what type of pistons woul
you recommend? Should I use three carb
retors or four? And most important of al
would all of this be too much of a strain o
the crankshaft?

– Tom Bender, Rosemead, California

To answer your last question first, yes, A fi race Model "A" with a stock crank and lubri cation system is bound to pound out bearing and cranks. Although it's not as good as go ting the Model "C" crank in the "C" or "I block, the very least you need is a Model "I crank in your "A" block, If you simply ca afford one or locate one, use the "A" sha - but with the understanding that trouble just around the corner, An easy way to pre surize at least part of the "A" lower-end! to run oil lines from the rear main cap to f center and front caps. Drill and tap holes these for suitable fittings. When this is do the drain tube from the rear main to the p must be plugged to hold the pressure. A proable result of this will be oil on the clut due to leakage back through the rear ma but - well, you can't have everything.

Three or four carbs will be too much — u a single "97" on a downdraft manifold alos with a moderate (not over 7.0 to 1) compresion flathead. Adjustable tappets, availab from Bell Auto Parts, will be needed for u with the reground cam. Lose your mind on the cam, because you can't get both lift and durtion from the stock cam because there juins't enough material for the grinder to wo with — so get a wild 'un. These engines has

plenty of low-speed torque stock - work for e top end. use eith

FORDOMATIC DISPOSAL

Dear Bob:

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I have a '53 Ford convertible with autonatic transmission, and would like to install standard-shift unit with overdrive in its lace. What do you suggest?

> - Larry Gorsline, Homer, Michigan

With all due respect and my thanks for your Astimation of my knowledge, I suggest that you, nd the other ten-iillion readers who want to et rid of their automatics, go to the nearest a Mod spency selling the make of car concerned and the sit down and have a heart to heart talk is bore with the parts department manager. Thorough the should be shoul s would books there will show you exactly what can or e Carbo t of alon't be done in your particular situation — and t of alon't be done time result in your obtaining a list train of the parts needed for the conversion and their total price. When we go out to do a how-too-it article on this subject this is the way we so about it, so you can see that to do this for A freach and every inquiry would be similar to ad lub ranking-out individual Car Craft's for each bearing aquirer!

GONE GEARING

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del "Dear Bob: I have a '50 Ford with a '55 Ford V8 puble PHV engine in it. The only other thing to pref changed was the rear end, a '53 Fordo--end matic. The transmission is the original. to the This combination hasn't helped the speed holes of the car much. What do you think I is do hould do? I want lots of pick-up.

- Jack Tussing. Columbus Grove, Obio

o club, ou didn't mention an overdrive so we'll have r mail o assume you don't have one. Even without h — un O.D., the Fordomatic 3.31 ratio rear-end is a sufficient all by itself to ruin your performompre ance. The standard '50 rear-end gear was 3.73 vailab by reducing this to 3.31 you decreased the gear's multiplication of your engine's torque for upon almost as much as the new engine induring the amount of torque available. If you re june famet is toll and forget it. It'll go.

CONTINUED



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CRAP OCTOBER, 1957

WHAT'S YOUR PROBLEM?

EMBALMING FLUID

Dear Bob:

I have a '48 Dodge with Fluid Drive. As this combination does not add up to much go on the drag strip, I would like to have some ideas on economical engine and transmission modifications.

- Jim Calliotte, St. Louis, Mo.

I started sympathizing with you after the end of your letter's first sentence. Can that awful thing beneath the floorboards — the fluid drive unit, that is, and replace the flywheel with the conventional clutch type of the same year. If you've done any dragging at all with the F.D. you know how to shift it to get the most out of it. Changing the complete trans isn't mandatory, and since the clutch linkage and pedal used with the F.D. is already in the car, just get rid of that slipping monstrosity.

For more power to you, I'd suggest picking up a Chrysler or DeSato "6" since these are up for grabs real cheap nowadays, Installation of one of these would merely require minor things like radiator relocation which you could easily do yourself. The added displacement would give far more from any modifications such as ¾ cam, milled head, dual carbs, etc., than you would get from the smaller Dodge mill. Try one of the big-name engine swappers as a source of one of these sixes — they're replacing 'em by the hundreds with Vê's so there's plenty around.

TOO MUCH COG

Dear Bob:

I have a '48 Chevrolet with Chev V8 engine. I'm thinking about hooking it to a late Chev stick-shift trans with electric overdrive, and leave in the present rear-end. I want something with good pick-up.

- Arnold Lueth, Mt. Clemens, Michigan

Don't do it. Besides running into all kinds of trouble trying to adapt the Hotchkiss-drive late trans to the torque-tube drive early rear-end, you'd only be slowing yourself down. If your '48 has the stock 4.11 rear end in it, you're already pulling all the gear you can with a stock Chev V8. California Corvette ewners are going to 4.11's in droves since finding out it's the only way to get a stock Corvette te peg the speedometer.

RAPID RAMBLER

Dear Bob:

I have a '55 Rambler and would like yo comments on transmission, driveline and a end to be used with a Chevrolet V8 in a chassis. I selected the Chev because of a compact design, relatively low and reasonal power. Would this be a worthwhile swap?

> - Bob Vanacore, North Haven, Connecticut

It will be if you can get it in! We had a felled drop by the Petersen Publishing Company of not so long ago herding a flathead Merc powered Rambler. The fit was so tight that it exhaust manifolds had to be installed at the engine, and it would be necessary to move them first before taking the engine of too. This is because of the Rambler squeak constitution—a complete aparture from normal design, and a good and too—but still something that won't stand stor Indiscriminate torching, so watch it.

Regarding the driveline components, I'd as go Chevrolet all the way, using the last the torque-tube drive series rear ends for ea attachment to your Rambler's rear springs, as a '54 or earlier transmission as well for ea of connection to that rear end. Full advantage of the Chev V8's characteristic high-revits will require use of the close-ratio cogs are able for the pre-'55 boxes from accessory firm

FORD OHV FAN

Dear Bob:

I would like to have your opinion on whe kind of cam, carburetion, ignition, et would give top performance from a '57 Fo 312" engine. The one I have is the 2 horsepower version, so I would like to know what I'd have after making the suggests modifications.

- Joe Clark, Carrollton, Ill.

Stand by for a shock — you aren't going to get 245 horsepower, installed (under yeel's round amblent atmospheric conditions), frogethis engine either before you hop it up afterwards — unless you spend a pile of loom Because factory horsepower ratings are take without accessories, with such vital Items spark lead adjusted manually for maximulation output, a really stock engine running with accessories operating, manifold heat on, at accessories operating to duple to the factory figure. To add insult to injury

factory "corrects" all readings obtained rough this already-favorable system to a and to which would be actual only if the enwere breathing 60 degree temperature en in winter, are nearly always considerably ove that figure, the loss in density of the swap? Make charge reduces the actual power output om the theoretical even more.

A mild hop-up, if properly done, can bring our "245" up to its optimistic rating, Installa-on of a good three carburetor manifold, exd a felk any off loust headers, and racing ignition system will Aerc por that the care of the outside. The '57 Ford cam is so littled affect for anything short of the Salt Flats in its ary to tack form I'd leave it alone, but use the igline of 270" pushrods and valve springs for the queck arter 700 RPM they'll give you on the top end. plete that should be more than sufficient to allow good one engine to rev up into the range (5,500) stand states the three-jugger and headers pay-off.

- SIXTY SUBSTITUTE

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ings, and "60" besides the original? If so, where for eaight I find one?

- Gary Burkes, Evansville, Indiana

h-revvi gs availleve it or not, Sears is your savior—they ory firmit an "85" box converted for "60" use in eir catalog. Shift lever relocation is required the floorboards, but I'm sure you won't let at stop you - those "60" boxes are defitely extinct.



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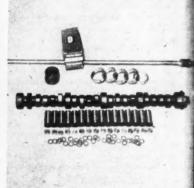


maximum OW AVAILABLE, the all-new 5th Edition which is completely different on previous editions and more than twice as large. This very popular with an edition is particularly with a finder at the case of the property of INFORMATION. Once you have a copy you wouldn't take \$100 for it if no more were available. It is also a COMPLETE CATALOG telling where to buy ENGINES, WHEELS, INDIVIDUAL PARTS, SUPPLIES, and COMPLETE CARS, The price for this NUGE Hamdbook is still ONLY \$1.00.

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BUILDING AN OVERHEAD

portant because it affects their tension on the valve stems. If a spring is longer than its specified length its tension will be less than it should and if it is shorter its tension will be more than it should. It is rare that the length will be less than specified because grinding the seats in the heads and the faces of the valves for a valve reconditioning job allows the valves to seat deeper in the heads and makes the distance from the spring washer groove on the valve stem to the spring surface on the head greater.

Rick found that some of the springs measured longer than they should so he shortened them by installing thin washers made for this purpose between their lower end and the head. When all the springs were the correct length, he compressed those that were on intake valves, removed the split locks from the valve stems, and slipped a rubber seal ring over each stem and seated it in its groove below the split lock groove. The purpose of the seal rings is to prevent oil from flowing down the valve stems and into the combustion chambers. The split locks were then reinstalled on the stems and the springs released. The heads were ready to be installed on the cylinder block.

The cam bearings in the block and the bearing journals and cams on the camshaft were lubricated with the graphite and oil mixture and the cam was slipped into the block. This was done carefully to prevent damaging the surfaces of the bearings with the sharp edges of the shaft's cams.

A new set of timing chain sprockets and a new chain were installed. The timing chain and its sprockets control the opening and closing times of the valves in relation to the position of the crankshaft and pistons and it is important that the timing be correct if the engine is to run right. Worn sprockets and a worn chain allow the cam to lag behind the crankshaft, causing the valve timing to be late. Early Olds V8 engines had timing chains of two different widths as stock equipment so Rick took his old chain to the parts store when he bought the new chain and sprocken so he would be sure to get the correct set.

The long square key was tapped into the nose of the crankshaft and then the crank sprocket was tapped onto the shaft with a length of steel tubing and a hammer. The shaft was turned so the "O" mark on the sprocket faced the camshaft. The cam sprocket was slipped onto the cam so the dowel hole in its hub was over the dowel in the end of the cam and then it was turned so its "O" mark faced the mark on the gear.

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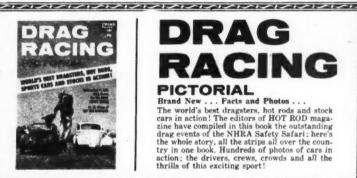
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ANNUAL

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After installation of cam bearing insen shells the cam is pre-lubricated with a eraphite and oil mixture to protect it against initial wear from a dry start

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BUILDING AN OVERHEAD

The sprocket was removed from the cam and inserted in the chain. Then the chain was slipped over the crank sprocket and the cam sprocket was slipped onto the end of the camshaft. A check was made to see if the cam was timed correctly to the crankshaft by aligning one edge of a steel rule with the center of the carn and crankshaft to see if the marks on the sprockets were in line with the centers of the shafts. The three bolts that hold the fuel pump eccentric and the sprocket to the cam were installed with the eccentric and tightened. The chain and sprockets were then lubricated with the graphite and oil mixture.

In the model of engine Rick has, any tendency of the camshaft to move back and forth in the block is controlled by a spring-loaded low plunger in the end of the shaft. The plunger contacts a boss on the inside of the timing dra chain cover. After the spring and plunger were placed in the camshaft and the oil slinger slipped over the nose of the crankshaft, the block was ready for the timing chain cover. sha Rick installed a new oil seal in the cover, tell taking care to install it so its lip faced the stal crank sprocket and its inner edge was flush with the opening in the cover, and then Proper alignment of Olds timing sprockets when in correct position in relation to each other for installation of timing chain is checked using any type of straight-edge.

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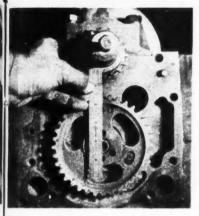
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bolted the cover and a new gasket to the block. A pair of dowels hold the cover in alignment with the crankshaft.

The oil pump and its pressure release valve had been disassembled, cleaned, checked for cam wear, and reassembled prior to this time and now it was bolted to the rear main bearing cap and its capscrews tightened to 11 to 14 footpounds. The pump was in good condition internally but if it had been worn it would have been replaced with a new one because a good oil pump is essential to long engine life. New cork side gaskets for the oil pan were placed on the block and held in place with a few dabs of grease on the gasket surface of the block and new end seal rubbers were inserted in the ends of the pan. The surfaces of the rear main bearing cap and the timing chain cover on which the end seals rest were coated with grease so the seals could slip into place without any trouble when the pan was lowered onto the block. The pan bolts were tightened to 9 to 11 foot-pounds and the pan's drain plug was tightened to 22 to 26 footpounds.

That takes care of the installation of the the crankshaft, piston assemblies, and the camshaft in the cylinder block. Next month we'll tell you how Rick finished the engine by installing its cylinder heads, intake manifold, ush carburetors, and ignition distributor. Be sure hen to be with us.

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DEVILLE TYPE STYLING FOR MERC

Dear George:

I recently saw a '49-'51 Mercury with the center post of the car removed simulating a DeVille type styling. I would like to come up with a similar type design for my '50 Merc and would like to know just what modifications would be involved in achieving this appearance?

- Carl Sorrenson. Portland, Oregon

First remove door post, then install window glass from a convertible. The top is re-fitted to the car, aligned to windows with chrome trim. This particular innovation is a very popular one, Carl, but as you probably know for yourself, it is one that requires a lot of metal working knowledge and body work experience. If you do not possess this experience, then I suggest that you select a local body shop for the job.

TAILLIGHTS FOR LATE PICKUPS

Dear George:

I'm looking for a taillight that would fit my '54 Chevrolet pick-up truck's rear fenders. with little work involved from the standpoint of installation. Can you give me some suggestions in this department?

- Art Devron. lacksonville, Florida

My suggestion would either be '50 Mercury taillights, or the '47 Studebaker lights, Both can be installed horizontally; low and along the bottom edge of the fender.

PLYMOUTH TAILLIGHT FOR CHEVY Dear George:

I understand that a '56 Plymouth taillight assembly will practically fit right up to the '56 Chevrolet with little or no difficulty - is this true? I would sure appreciate some information on this subject - or possibly, a short how-to-do-it feature in the magazine in the very near future ... how 'bout it?

- Dean Wills. Orange, California

Yes - they fit up very well and in the next issue we plan on featuring a how-to-do-it article on just such an installation.

HUBCAPS AGAIN

Dear George:

I've seen some hubcaps pictured in CAR CRAFT recently where small "star" shaped emblems were adapted around the circumference of the wheel cover. I think that the captions referred to these small emblems as a Pontiac trim piece. What I would like to



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know is what year were they - and also what other small trim can you think of that would fit or adapt to a hubcap in a similar fashion?

> - Jerry McCarthy Glendale, Nevada

The stars you are thinking of, Jerry, are from a '51 Pontiac, Accessory stores and custom chrome houses have quite a few small medallion type goodies that can be installed on hubcaps to give them a little added flavor.

'55 PONTIAC BUMPER-GRILLE

Dear George:

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LAFT

I'm contemplating installing a '55 Pontiac bumper for a grille in my '53 Merc. It will fit up very similar to the already stock center bumper bar that the car now possesses. Would it be a good idea to also use the Pontiac's bumper pan in conjunction with the installation?

> - George Barber, Weed. California

Yes — it would make a nice installation. It would kelp fill the grille cavity out giving it fullness.

'55 CHEVY PICKUP GRILLE

Dear George:

Do you think that a '55 Chevrolet pick-up grille, sans vertical bars, would make a nice looking grille for my '47 Plymouth club coupe? I've seen it installed in a couple of late model cars recently and it appears to be a fairly simple installation. Any information you could forward me on this innovation would be greatly appreciated.

- Dick Barnhart, Rochester, N.Y.

This is rapidly becoming one of the most popular grilles, Dick. Its size and contours are such that it can be installed in just about any make or model. It can either be bolted up to the grille shell, or it can be welded and frenched into the grille's paneling. Just for kicks, check out with this month's restyling feature (page 34) you'll find a neat installation in a '42-'48 Ford/Merc, I mentioned it only to give you an idea of the grille appearance when adapted to another make and model.

SOLID TOP FOR EARLY MODELS

Dear George:

I'm in the process of chopping my '32 Ford coupe and would like to fill in the roof's center section with metal. Sometime ago I read something in one of the automotive magazines that this could be accomplished by using a section of metal from a late passenger car door - it stated that the crown of such doors match that of the deuce perfectly and that it eliminated much of the work making for an easy modification. Could you give me some details on this particular innovation?

- Dennis James, Newark, N.J.

The suggestion you have can be done, Denny, but I would use a straight universal sheet metal replacement panel which can be procured from auto body supply stores. Cut the panel so that you have a 1-inch overlap around opening, then braze the panel solid, lead and work the surface to perfection. You'll find that using the universal panel is much easier than getting tied up with a door panel type replacement.



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NERF BARS

Dear George:

I'm about ready to build some nerf bar type bumpers for my '50 Ford club coupe and would like to inquire of what type material I should use and of what size in diameter? Also, what would be the method of adapting them to the car; should I use a slip tube method, or attach them right to the stock bumper brackets?

> - Andy Lindsay, Cortez, Colorado

One inch chrome-moly is the more popular, but you can use any size you desire. Other material would possibly be hot roll tubing with a ½ inch wall. Slip tubes are the best arrangement, but if you wish, the stock bumper brackets can be employed for support.

AUTO SHOW QUERY

Dear George:

Knowing that you help stage and participate in many custom auto shows, I would greatly appreciate it if you could explain for me the definite rules that separate the so-called "mild custom class" from that of the "semi-custom" classification? I know this is somewhat out of the ordinary for your "Custom Queries" column, but we are about to present an auto show and would like to include this class in our show if we definitely understood the rules separating these two classes — thank you.

- Lee Bordeau, President, Lead Merchants Car Club, Galesburg, Illinois

There are four custom classifications: Full Customs, Semi Customs, Moderate Customs, Mild Customs.

Full Custom — consists of any car that has had a major modification to the body such as a chapped top, section job or channeling.

Semi Customs — are cars that have everything but chopped tops, a section job, or channeling. Moderate Customs — cars that have minor work done such as a nosed and deck job, moderate grille or taillight conversion work and possibly an interior change.

Mild Customs — are cars with bolt on accessory items, possibly a special point job of flames or scallops, but many are just truly clean cars.

Dear George:

In measuring out the fins on a '57 Dodg recently I found that they could be installed or at least appeared as though they could be installed, right over the rear fenders of my '54 Mercury with not too much work involved? Could I get your ideas on this modification?

- Stan McDonald, Waterloo, Iowa

A very good idea, Stan. It has yet to be done to my knowledge, and in giving it some thought I can see where it would be quite a simple installation.

FENDERS FOR PICKUP

Dear George:

Seeing how you just completed building one of the most radical pick-up trucks that have ever seen I would like to know if you could offer me some suggestions for adapting some different late model pickup fenders my '55 Ford pick-up truck? You probably have given this department considerable attention when you customized your truck, and others, so thought you'd be just the shop me lend me this information. Thank you.

- Kenneth Barns, Kansas City, Kansas

I would suggest the '55 Chevrolet pick-up fenders, Kenny. They practically bolt right on and the only necessary modification is a slight amount of work at the ends of the running boards. Check it out and see what you think!

COMING ATTRACTION

Custom cutie for this month is beautiful
Barbara Martinez, of San Diego,
California, Barbara's substitute for a
beach ball is a reversed-rim wheel, the
latest styling craze on the Pacific Coast.
Starting out on pick-up trucks, the trend
to wider treads has been taken up en
masse by the custom car fraternity—
read all about how you can restyle your
car's wheels this way in the November
Car Craft, on sale at your favorite
newsstand October 10

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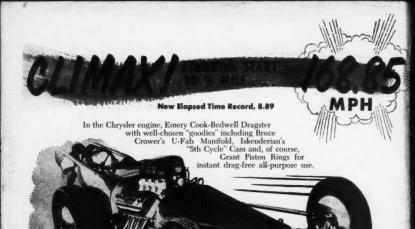
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